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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/715,965	11/17/2000	Elizabeth M. Denholm	IT 106	7982	
75	90 04/01/2002				
PATREA L. PABST, ESQ. HOLLAND AND KNIGHT LLP 1201 WEST PEACHTREE STREET, N.E. SUITE 2000, ONE ATLANTIC CENTER ATLANTA, GA 30309-3400			EXAMI	EXAMINER	
			MELLER, M	ICHAEL V	
			ART UNIT	PAPER NUMBER	
			1651	I	
			DATE MAILED: 04/01/2002	\mathcal{D}	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)
Office Action Summary		09/715,965	DENHOLM ET AL.
		Examiner	Art Unit
		Michael V. Meller	1651
Period f	The MAILING DATE f this communication apports or Reply	pears on the cover sheet with	h the correspondence address
THE - Extended after - If the second of the	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONTI t, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 13 I	November 2001 .	
2a)⊠		is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims		
4)⊠	Claim(s) 1-11 is/are pending in the application	1.	
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5)[Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-11</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)□	Claim(s) are subject to restriction and/o	r election requirement.	
Applicat	ion Papers		
9)[The specification is objected to by the Examine	r.	
10)[The drawing(s) filed on is/are: a) _ accept	pted or b)☐ objected to by the	e Examiner.
	Applicant may not request that any objection to the	e drawing(s) be held in abeyan	nce. See 37 CFR 1.85(a).
11)	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ dis	sapproved by the Examiner.
	If approved, corrected drawings are required in re	ply to this Office action.	
12)	The oath or declaration is objected to by the Ex	aminer.	
Priority	under 35 U.S.C. §§ 119 and 120		
13)[Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority document	s have been received.	
	2. Certified copies of the priority document	s have been received in App	plication No
* ;	3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-
14) 🗌 /	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. §	119(e) (to a provisional application).
	a) The translation of the foreign language pro Acknowledgment is made of a claim for domest	· ·	
Attachmer	_	_	
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Inf	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)
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Application/Control Number:	Page 2
09/715,965	
Art Unit: 1651	

DETAILED ACTION

Election/Restrictions

It is noted that applicants elected chondroitinase AC as their enzyme and cancer as the disorder.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

Claims 1-9 stand rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi for the reasons of record and for the reasons which follow.

Applicants argue that Takeuchi does not demonstrate that one can inject enzyme into established tumors and inhibit further growth, nor inhibit angiogenesis.

Claim 1 is drawn to a method to decrease tumor growth. Takeuchi is also treating tumor growth and reports that chondroitinase AC (the enzyme) inhibits tumor growth, see page 118, right column. Further, claim 1 does not claim injecting anything only administering it. In fact, claim 10 administers the enzyme topically. Applicants' comments concerning Takeuchi having nothing to do with angiogenesis are also not

Application/Control Number:		F	age 3
09/715,965			
Art Unit: 1651	 -		

well taken. Since Takeuchi teaches administering the enzyme and a tumor to a mouse then angiogenesis is inherently decreased.

The discovery of an inherent property of a prior art process cannot serve as a basis for patenting that process. See *Ex parte Novitski*, 26 USPQ2d 1389 (Bd. Pat. App. & Inter. 1993) (The Board rejected a claim directed to a method for protecting a plant from plant pathogenic nematodes by inoculating the plant with a nematode inhibiting strain of *P. cepacia*. A U.S. patent to Dart disclosed inoculation using *P. cepacia* type Wisconsin 526 bacteria for protecting the plant from fungal disease. Dart was silent as to nematode inhibition but the Board concluded that nematode inhibition was an inherent property of the bacteria. The Board noted that applicant had stated in the specification that Wisconsin 526 possesses an 18% nematode inhibition rating.).

Further, applicant argues that angiogenesis requires endothelial cells. Mice have endothelial cells. Thus the argument is moot.

Claim Rejections - 35 USC § 103

Claims 1-11 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi in view of JP 51075042 (JP) for the reasons of record and for the reasons which follow.

Applicants argue that Takeuchi does not demonstrate that one can inject enzyme into established tumors and inhibit further growth, nor inhibit angiogenesis.

Application/Control Number:	Page 4
09/715,965	
Art Unit: 1651	

Claim 1 is drawn to a method to decrease tumor growth. Takeuchi is also treating tumor growth and reports that chondroitinase AC (the enzyme) inhibits tumor growth, see page 118, right column. Further, claim 1 does not claim injecting anything only administering it. In fact, claim 10 administers the enzyme topically. Applicants' comments concerning Takeuchi having nothing to do with angiogenesis are also not well taken. Since Takeuchi also teaches administering the enzyme and a tumor to a mouse then angiogenesis is inherently decreased.

The discovery of an inherent property of a prior art process cannot serve as a basis for patenting that process. See *Ex parte Novitski*, 26 USPQ2d 1389 (Bd. Pat. App. & Inter. 1993) (The Board rejected a claim directed to a method for protecting a plant from plant pathogenic nematodes by inoculating the plant with a nematode inhibiting strain of *P. cepacia*. A U.S. patent to Dart disclosed inoculation using *P. cepacia* type Wisconsin 526 bacteria for protecting the plant from fungal disease. Dart was silent as to nematode inhibition but the Board concluded that nematode inhibition was an inherent property of the bacteria. The Board noted that applicant had stated in the specification that Wisconsin 526 possesses an 18% nematode inhibition rating.).

Further, applicant argues that angiogenesis requires endothelial cells. Mice have endothelial cells. Thus the argument is moot.

Applicants argue that JP adds nothing to the rejection since it is not known that one can reduce tumor growth retroactively. The comments concerning applicants arguments are reiterated here. Takeuchi is administering the same enzyme in the same

Application/Control Number: 09/715,965	Page 5
Art Unit: 1651	

way as applicants. The tumor is injected into the mouse and the enzyme inhibits the tumor as noted by Takeuchi.

Claims 1-11 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Brown in view of Takeuchi and JP 51075042 for the reasons of record and for the reasons which follow.

Applicants do not even note this rejection but it is maintained. The above arguments are reiterated since they also apply here. The enzyme is known to be administered to treat tumors and will inherently perform the claimed process.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number:	Page 6
09/715,965	
Art Unit: 1651	

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 703-308-4230. The examiner can normally be reached on Monday thru Friday: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 703-308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0294 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

MVM March 29, 2002

DAVID M. NAFF PRIMARY EXAMINER ART UNIT 1865